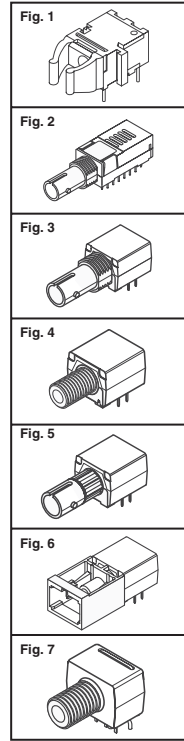




## Transmitters and Receivers



Fig.	Description	Connector Type	Wave-length (nm)	Oper. Temp. (°C)	Supply Voltage (V)	Digi-Key Part No.	1	10	100	Avago Part No.	
1	Transmitter, 125MBd Versatile Link	Versatile	650	-40~70	2.1	516-1746-ND	12.12	11.71	9.20	HFBR-1527Z	
	Receiver, 125MBd Versatile Link	Versatile	650	0~70	6.0	516-1747-ND	15.81	15.27	12.00	HFBR-2526Z	
	Transmitter, 5MBd High Performance Link, Horizontal Package	Versatile	660	-40~85	1.67	516-2043-ND	9.81	9.09	6.91	HFBR-1521Z	
	Receiver, 5MBd High Performance Link, Horizontal Package	Versatile	660	-40~85	7.0	516-2062-ND	9.81	9.09	6.91	HFBR-2521Z	
	Transmitter, 1MBd High Performance Link, Horizontal Package	Versatile	660	-40~85	1.67	516-2044-ND	9.81	9.09	6.91	HFBR-1522Z	
	Receiver, 1MBd High Performance Link, Horizontal Package	Versatile	660	-40~85	7.0	516-2063-ND	9.81	9.09	6.91	HFBR-2522Z	
	Transmitter, 40kBd Low Current/Extended Distance Link, Horizontal Package	Versatile	660	-40~85	1.67	516-2045-ND	9.81	9.09	6.91	HFBR-1523Z	
	Receiver, 40kBd Low Current/Extended Distance Link, Horizontal Package	Versatile	660	-40~85	7.0	516-2064-ND	9.81	9.09	6.91	HFBR-2523Z	
	Transmitter, 1MBd Standard Link, Horizontal Package	Versatile	660	-40~85	1.67	516-2046-ND	9.81	9.09	6.91	HFBR-1524Z	
	Receiver, 1MBd Standard Link, Horizontal Package	Versatile	660	-40~85	7.0	516-2065-ND	9.81	9.09	6.91	HFBR-2524Z	
	Transmitter, 10MBd High Performance Link, Horizontal Package	Versatile	660	-40~85	1.67	516-2047-ND	10.45	9.83	7.32	HFBR-1528Z	
	Receiver, 10MBd High Performance Link, Horizontal Package	Versatile	660	-40~85	7.0	516-2066-ND	16.36	15.38	11.45	HFBR-2528Z	
	Transmitter, 5MBd High Performance Link, Vertical Package	Versatile	660	-40~85	1.67	516-2048-ND	10.90	10.25	7.64	HFBR-1531Z	
	Receiver, 5MBd High Performance Link, Vertical Package	Versatile	660	-40~85	7.0	516-2067-ND	10.90	10.25	7.64	HFBR-2531Z	
	Transmitter, 1MBd High Performance Link, Vertical Package	Versatile	660	-40~85	1.67	516-2049-ND	10.90	10.25	7.64	HFBR-1532Z	
	Receiver, 1MBd High Performance Link, Vertical Package	Versatile	660	-40~85	7.0	516-2068-ND	10.90	10.25	7.64	HFBR-2532Z	
	Transmitter, 40kBd Low Current/Extended Distance Link, Vertical Package	Versatile	660	-40~85	1.67	516-2050-ND	10.90	10.25	7.64	HFBR-1533Z	
	Receiver, 40kBd Low Current/Extended Distance Link, Vertical Package	Versatile	660	-40~85	7.0	516-2069-ND	10.90	10.25	7.64	HFBR-2533Z	
	2	Transmitter, Data Link for 266MBd	ST	1300	0~70	5.5	516-2031-ND	60.43	54.07	43.74	HFBR-1191TZ
		Receiver, Data Link for 266MBd	ST	1300	0~70	9.5	516-2051-ND	60.43	54.07	43.74	HFBR-2119TZ
3	Transmitter, Low Cost Fiber Optic Link	ST	1300	-40~85	1.4	516-2032-ND	41.31	39.24	28.92	HFBR-1312TZ	
	Receiver, Low Cost Fiber Optic Link	ST	1300	-40~85	6.0	516-2052-ND	41.31	39.24	28.92	HFBR-2316TZ	
	Transmitter, Low Cost, Miniature, Standard Power, Threaded Metal	ST	820	-40~85	1.7	516-2035-ND	17.76	16.70	12.44	HFBR-1412TMZ	
	Receiver, Low Cost, Miniature, Standard Power, Threaded	ST	820	-40~85	7.0	516-2054-ND	17.76	16.70	12.44	HFBR-2412TCZ	
	Transmitter, Low Cost, Miniature, Standard Power, Threaded	ST	820	-40~85	1.7	516-2036-ND	17.76	16.70	12.44	HFBR-1412TZ	
	Receiver, Low Cost, Miniature, Standard Power, Threaded	ST	820	-40~85	7.0	516-2055-ND	17.76	16.70	12.44	HFBR-2412TZ	
	Transmitter, Low Cost, Miniature, High Power, Threaded	ST	820	-40~85	1.7	516-2039-ND	17.76	16.70	12.44	HFBR-1414TZ	
	Receiver, Low Cost, Miniature, High Power, Threaded	ST	820	-40~85	7.0	516-2057-ND	17.76	16.70	12.44	HFBR-2416TCZ	
	Transmitter, Low Cost, Miniature, High Power, Threaded	ST	820	-40~85	7.0	516-2058-ND	17.76	16.70	12.44	HFBR-2416TZ	
	Receiver, Low Cost, Miniature, High Power, Threaded	ST	820	-40~85	7.0	516-2057-ND	17.76	16.70	12.44	HFBR-2416TCZ	
4	Transmitter, Low Cost, Miniature, Standard Power	SMA	820	-40~85	1.7	516-2033-ND	17.76	16.70	12.44	HFBR-1402Z	
	Receiver, Low Cost, Miniature, Standard Power	SMA	820	-40~85	7.0	516-2053-ND	17.76	16.70	12.44	HFBR-2402Z	
	Transmitter, Low Cost, Miniature, High Power	SMA	820	-40~85	1.7	516-2034-ND	17.76	16.70	12.44	HFBR-1404Z	
5	Receiver for SERCOS with Open-Collector Output	SMA	820	-40~85	7.0	516-2070-ND	15.49	14.56	10.85	HFBR-2602Z	
	Transmitter, Low Cost, Miniature, Standard Power	ST	820	-40~85	1.7	516-2037-ND	17.76	16.70	12.44	HFBR-1412Z	
	Receiver, Low Cost, Miniature, Standard Power	ST	820	-40~85	7.0	516-2056-ND	17.76	16.70	12.44	HFBR-2412Z	
	Transmitter, Low Cost, Miniature, High Power	ST	820	-40~85	1.7	516-2040-ND	17.76	16.70	12.44	HFBR-1414Z	
	Receiver, Low Cost, Miniature, High Power	ST	820	-40~85	7.0	516-2038-ND	17.76	16.70	12.44	HFBR-1414MZ	
	Transmitter, Low Cost, Miniature, 125MHz, Analog Output	ST	820	-40~85	7.0	516-2059-ND	17.76	16.70	12.44	HFBR-2416Z	
	Receiver, Low Cost, Miniature, 125MHz, Analog Output	SC	820	-40~85	1.7	516-2041-ND	19.54	18.37	13.68	HFBR-14E4Z	
	Transmitter, Low Cost, Miniature, High Power	SC	820	-40~85	7.0	516-2060-ND	17.76	16.70	12.44	HFBR-24E6Z	
7	Transmitter for SERCOS Applications	SMA	650	-40~85	2.1	516-2042-ND	13.63	12.82	9.55	HFBR-1505AZ	
	Receiver for SERCOS Applications	SMA	650	-40~85	5.5	516-2061-ND	16.36	15.38	11.45	HFBR-2505AZ	



A

## Fiber Optic Connectors, Cable, Accessories, and Kits

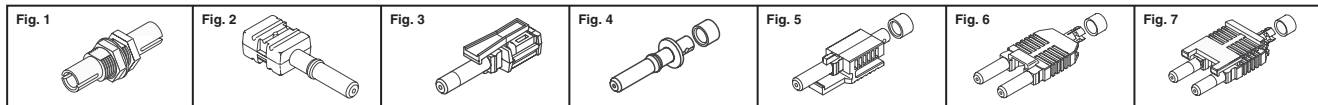


Fig.	Description	Digi-Key Part No.	1	10	100	Avago Part No.
<b>Connectors — RoHS Compliant</b>						
1	Bulkhead Adapter, Gray	516-1748-ND	1.49	1.27	1.08	HFBR-4505Z
	Bulkhead Adapter, Blue	516-1891-ND	1.40	1.21	1.08	HFBR-4515
	Bulkhead Adapter, Blue	516-2076-ND	1.40	1.21	.93	HFBR-4515Z
2	Crimplless Connector, Black	516-1749-ND	.86	.73	.63	HFBR-4531Z
	Crimplless Connector, Blue	516-2080-ND	.81	.70	.54	HFBR-4533Z
	Crimplless Connector, Gray	516-2081-ND	.81	.70	.54	HFBR-4535Z
3	Crimplless Latching Connector, Black	516-2079-ND	.81	.70	.54	HFBR-4532Z
	Simplex Connector, Gray	516-1889-ND	.93	.81	.62	HFBR-4501
4	Simplex Connector, Gray	516-2071-ND	.93	.81	.62	HFBR-4501Z
	Simplex Connector, Blue	516-2074-ND	.93	.81	.62	HFBR-4511Z
	Simplex Latching Connector, Gray	516-2072-ND	.81	.70	.54	HFBR-4503Z
5	Simplex Latching Connector, Blue	516-2075-ND	.81	.70	.54	HFBR-4513Z
	Duplex Connector	516-2073-ND	1.35	1.27	1.02	HFBR-4506Z
7	Duplex Latching Connector, Gray	516-2077-ND	1.35	1.27	1.02	HFBR-4516Z
<b>Cable — RoHS Compliant</b>						
1	1m Simplex Cable for Latching Connectors	516-2088-ND	5.30	4.87	3.72	HFBR-RLS001Z
	1m Simplex Cable for Standard Connectors	516-2090-ND	5.30	4.87	3.72	HFBR-RMS001Z
	5m Simplex Cable for Standard Connectors	516-2091-ND	8.79	8.14	6.19	HFBR-RMS005Z
	5m Duplex Cable for Standard Connectors	516-2089-ND	16.27	15.30	11.40	HFBR-RMD005Z
	10m Simplex Cable for Standard Connectors	516-2092-ND	12.79	12.02	8.95	HFBR-RMS010Z
	100m Simplex Cable, Unconnected	516-2095-ND	70.63	63.20	51.12	HFBR-RUS100Z
100m Simplex Cable, Unconnected, Ext. Low Loss POF	516-2086-ND	82.28	74.35	66.92	HFBR-EUS100Z	
	516-2093-ND	123.42	111.53	100.38	HFBR-RUD100Z	
	500m Simplex Cable, Unconnected	516-2096-ND	269.52	255.58	241.64	HFBR-RUS500Z

Fig.	Description	Digi-Key Part No.	1	10	100	Avago Part No.
—	500m Simplex, Unconn., Ext. Low Loss POF	516-2087-ND	334.57	322.18	309.79	HFBR-EUS500Z
	500m Duplex Cable, Unconnected	516-2094-ND	501.86	483.27	464.69	HFBR-RUD500Z
<b>Accessories — RoHS Compliant</b>						
—	1000 Simplex Crimp Rings	516-2078-ND	101.48	91.70	82.53	HFBR-4525Z
	Polishing Kit	516-2082-ND	4.36	4.00	3.06	HFBR-4593Z
	Plastic Fiber Crimping Tool	516-2083-ND	221.60	210.14	198.68	HFBR-4597Z
<b>Kits</b>						
—	Evaluation Kit, TXRX 650NM FE	516-2135-ND	334.57	—	—	AFBR-0978Z
	Evaluation Kit, Fiber Optic 155MBD	516-2136-ND	125.77	—	—	HFBR-0310
	Evaluation Kit, Fiber Optic 266MBD	516-2137-ND	137.75	—	—	HFBR-0319
	Evaluation Kit, Fiber Optic 5MBD	516-2138-ND	49.15	—	—	HFBR-0410
	Evaluation Kit, Fiber Optic 125-160MBD	516-2140-ND	140.15	—	—	HFBR-0416
	Evaluation Kit, Fiber Optic 5MBD	516-2141-ND	26.85	—	—	HFBR-0501
	Evaluation Kit, Fiber Optic 125MBD	516-2142-ND	155.72	—	—	HFBR-0527H
	Evaluation Kit, Fiber Optic 125MBD	516-2143-ND	155.72	—	—	HFBR-0527P
	Evaluation Kit, Fiber Optic 10MBD	516-2144-ND	54.70	—	—	HFBR-0528
	Evaluation Kit, Fiber Optic 32MBD	516-2145-ND	92.52	—	—	HFBR-0536
	Evaluation Kit, Fiber Optic 32MBD	516-2146-ND	92.52	—	—	HFBR-0537
	Evaluation Kit, Fiber Optic Interbus	516-2147-ND	54.77	—	—	HFBR-0538
	Evaluation Kit, Fiber Optic Profibus	516-2148-ND	54.77	—	—	HFBR-0539
	Evaluation Kit, Fiber Optic SerCOS	516-2149-ND	54.77	—	—	HFBR-0540
	Evaluation Kit, Fiber Optic SerCOS 16MBD	516-2150-ND	79.31	—	—	HFBR-0541

◆ RoHS Compliant

## Transceivers

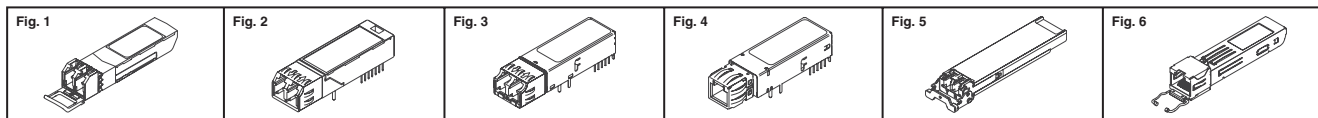


Fig.	Description	Connector Type	Wave-length (nm)	Operating Temperature (°C)	Link Distance (m)	Digi-Key Part No.	1	10	100	Avago Part No.
1	Optical Transceiver with DMI, SFP, 2/1/1 GbD	LC	850	-10~85	300, 500, 550	516-1713-ND	48.53	46.60	36.89	AFBR-57M5APZ
	Optical Transceiver with DMI, SFP, 4/2/1 GbD	LC	850	-10~85	150, 300, 500	516-1987-ND	45.02	42.78	31.52	AFBR-57R5APZ
	Optical Transceiver without DMI, SFP, 1.25 GbD	LC	850	-10~85	550	516-1986-ND	38.83	36.89	27.18	AFBR-5710PZ
2	Optical Transceiver with DMI, SFF, 4/2/1 GbD	LC	850	-10~85	150, 300, 500	516-1995-ND	38.83	36.89	27.18	AFBR-59R5LZ
3	SFF Optical Transceiver for Gigabit Ethernet and iSCSI	LC	850	0~70	275, 550	516-2084-ND	62.00	55.48	44.87	HFBR-5911LZ
4	SFF Optical Transceiver for Gigabit Ethernet and VCSEL	MT-RJ	850	0~70	220, 275, 500, 550	516-2085-ND	75.34	67.41	54.53	HFBR-5912EZ

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